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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Makoto TANIGUCHI et al.

Group Art Unit: 2838

Application No.: 10/823,650

Filed: April 14, 2004

Docket No.: 119443

For: INTERNAL CONDITION DETECTION SYSTEM FOR A CHARGE ACCUMULATING
DEVICE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. The references 1 and 2 were cited in a counterpart foreign application. A partial English language version of the foreign search report is attached for the Examiner's information.
- ☒ 3. English language Abstracts of the non-English language references 1 and 2 are attached hereto.
- ☒ 4. A computer-generated English language translation of the following Japanese Patent Publication has been obtained from the website of the Japanese Patent Office ([<http://www.jpo.go.jp>]), and is attached, but has not been reviewed for accuracy. See References 1 and 2.

- ☒ 5. Reference JP A 9-236641 A was cited in an Information Disclosure Statement filed on April 14, 2004, therefore a copy is not attached.

Respectfully submitted,


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Date: August 10, 2005

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<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
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Sheet 1 of 1

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 119443		APPLICATION NO. 10/823,650	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Makoto TANIGUCHI et al.			
				FILING DATE April 14, 2004		GROUP 2838	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
	1	JP A 6-281709 w/abstr. + trans.	10/07/1994	Japan			
	2	JP A 2002-286820 w/abstr. + trans.	10/03/2002	Japan			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: August 10, 2005

Date of Mailing: July 19, 2005

NOTICE OF REJECTION

Application No. : 2003-110652

Date of Rejection: July 11, 2005

GROUND:

The claimed invention is not patentable under Patent Law, Article 29, second paragraph.

NOTE:

References

- (1) JP 9-236641A
- (2) JP 2002-286820A
- (3) JP 6-281709A

Reference (1) teaches a device that generate estimation information about remaining capacity of a battery based on parameters of the battery by using a neural network.

A time rate capacity, internal resistance as well as a current, voltage and temperature at each time point are known as the parameters of the battery (for instance, References (2) and (3)). Therefore it is obvious to use those as input parameters of the neural network. In addition, it is a design matter to use them as the parameters by cutting out an arbitrary time.

Further, the internal impedance is known well as an internal state of a battery.